CONTENTS

Tectonophysics Volume 185

Research Papers

A seismic investigation of the crust and Moho underlying the Peace River Arch, Canada
Halchuck, S.C. and Mereu, R.F. (London, Ont., Canada) 1
Traces of Caledonian and Proterozoic crustal features in deep seismic profiles recorded between France and the British Isles
Bois, C. (Rueil-Malmaison, France), Lefort, J-P. (Rennes, France), Le Gall, B. (Brest, France), Sibuet, J-C. (Plouzane, France), Gariel, O., Pinet, B. (Rueil-Malmaison, France) and Cazes, M. (Paris, France) 21
The Brabant Massif as part of Armorica/Gondwana: U–Pb isotopic evidence from detrital zircons
Von Hoegen, J., Kramm, U. (Münster, F.R.G.) and Walter, R. (Aachen, F.R.G.) 37
Subduction of seamounts at the Java Trench: a view with long-range sidescan sonar
Masson, D.G., Parson, L.M. (Wormley, Surrey, U.K.), Milsom, J., Nichols, G. (London, U.K.), Sikumbang, N., Dwiyanto, B. (Bandung, Indonesia) and Kallagher, H. (Egham, Surrey, U.K.) 51
Equilibration temperatures and elastic wave velocities for upper mantle rocks from eastern Australia: implications for the interpretation of seismological models
O'Reilly, S.Y. (Sydney, N.S.W., Australia), Jackson, I. (Canberra, A.C.T., Australia) and Bezant, C. (Sydney, N.S.W., Australia) 67
Cenozoic tectonic extension and inversion of the Jizhong Basin, Hebei, northern China
Zhao, Z.Y. (Beijing, P.R. of China) and Windley, B.F. (Leicester, U.K.) 83
Mechanism and time of deformation and metamorphism of mylonitic orthogneisses from the Shagou Shear Zone, Qinling Belt, China
Reischmann, T., Altenberger, U., Kröner, A. (Mainz, F.R.G.), Zhang, G., Sun, Y. and Yu, Z. (Xian, P.R. of China) . . 91
$^{40}Ar/^{39}Ar$ mineral age constraints for the tectonothermal evolution of the Sambagawa metamorphic belt, central Shikoku, Japan: a Cretaceous accretionary prism
Takasu, A. (Matsue, Japan) and Dallmeyer, R.D. (Athens, Ga., U.S.A.) 111
The character of the geoelectric field observed with a long electrode span
Takayama, H. (Tsukuba, Japan) and Mori, T. (Nagano, Japan) 141
Origin of a major aeromagnetic anomaly in the Middle Niger Basin, Nigeria
Ojo, S.B. (Zaria, Nigeria) 153
Petrology and geotectonic development of the Western Ecuadorian Andes: the Basic Igneous Complex
Wallrabe-Adams, H.-J. (Kiel, F.R.G.) 163
Mountain building: strike-parallel motion and mantle anisotropy
Vauchez, A. and Nicolas, A. (Montpellier, France) 183
Models of magnetic anisotropy variations in sedimentary thrust sheets
Hrouda, F. (Brno, Czechoslovakia) 203
Subtle stretching lineation revealed by magnetic fabric of Callovian–Oxfordian black shales (French Alps)
Aubourg, Ch., Rochette, P. and Vialon, P. (Grenoble, France) 211
Geological constraints on the Paleozoic tectonic evolution of tectonostratigraphic terranes in the Iberian Massif
Quesada, C. (Madrid, Spain) 225
Late Cretaceous and Recent tectonic stress orientations recorded by basalt dykes at Capo Passero (southeastern Sicily)
Grasso, M., Pezzino, A. (Catania, Italy), Reuther, C.D. (Berlin, F.R.G.), Lanza, R. (Torino, Italy) and Miletto, M. (Torino, Italy) 247
Dynamic source parameters of the 1981 Gulf of Corinth (central Greece) earthquake sequence based on FFT and iterative maximum entropy techniques
Stavrakakis, G.N. (Athens, Greece), Blionas, S.V. (Aghia Paraskevi, Greece) and Goutis, C.E. (Patras, Greece) . . . 261
Maximum likelihood estimation of earthquake hazard parameters in the Aegean area from mixed data
Papadopoulos, G.A. (Attika and Athens, Greece) and Kijko, A. (Warsaw, Poland) 277
Causality between interplate (North Atlantic) and intraplate (Fennoscandia) seismicities
Skordas, E., Meyer, K., Olsson, R. and Kulhánek, O. (Uppsala, Sweden) 295
Conjugate ductile shear zones
Lamouroux, C. (Villeneuve d'Asq, France), Ingles, J. and Debat, P. (Trente-Six-Ponts, France) 309
Tests of strain analysis by experimental deformation
Borradaile, G.J. and McArthur, J. (Thunder Bay, Ont., Canada) 325

Metamorphism and deformation mechanisms in the Sierras Australes fold and thrust belt (Buenos Aires Province, Argentina)
Von Gosen, W., Buggisch, W. and Krumm, S. (Erlangen, F.R.G.) 335
Crustal structure of central Saudi Arabia determined from seismic refraction profiling
Badri, M. (Riyadh, Saudi Arabia) 357
Asymmetrical melange fabrics as possible indicators of the convergent direction of plates: a case study from the Simanto Belt of the Akaishi Mountains, central Japan
Kano, K., Nakaji, M. and Takeuchi, S. (Shizuoka, Japan) 375

Contents Volume 185 389

Guide for Authors